

**CURED MULTILAYER COATING PROVIDING IMPROVED  
EDGE CORROSION RESISTANCE TO A SUBSTRATE  
AND A METHOD OF MAKING SAME**

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**ABSTRACT**

A cured multilayer coating provides an improved edge corrosion resistance to a substrate. The method of making the cured multilayer coating includes applying by electrophoretic deposition a first curable coating composition to the substrate to establish a coated substrate. The coated substrate is then subjected to an amount of energy sufficient to cause the coated substrate to become a conductive coated substrate. Next, a second curable coating composition is applied to the conductive coated substrate to establish a multicoated substrate. The multicoated substrate is then subjected to an amount of energy sufficient for cross-linking the first and second curable coating compositions to make the cured multilayer coating. The cured multilayer coating provides the substrate with an edge corrosion resistance improved by at least 100%, as measured according to an Edge Corrosion Test, while a surface roughness, Ra, of the cured multilayer coating is maintained at or below 13  $\mu\text{in}$  (4.29nm).